

STORAGE-STABLE ZINC ANODE-BASED ELECTROCHEMICAL CELL

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A zinc alloy anode-based electrochemical cell, which generates gases and/or energy, is disclosed. The structure of the cell is such that a zinc alloy anode material (1) is the integral part of the housing and is in contact with an alkaline electrolyte (3) containing minor amounts of corrosion inhibitors. The electrolyte (3) which contains no zinc powder metal, may be in direct contact with the cathode (4) thereby simplifying cell construction by elimination of a separator material. The cell is environmentally friendly, containing no mercury or cadmium or other toxic metals and is cost effective as it eliminates expensive amalgamated zinc powder and separator material.

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